

Utility Model Patent

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Applicant: Shenyang City Ren Yi Co. Ltd.

Shenyang City, Liaoning Province, PRC

Title: **Electronic-Chemical Preserver for Fruits and Vegetables**

Abstract:

This utility model relates to fruit and vegetable preserving equipment, comprising housing, air filter mesh, electrostatic air purifier, electric fan, ozone-ion generator, air filter membrane, UV lamp and high voltage direct current generator. Said fruit and vegetable electronic and chemical preserver combines modern technology of electronics and chemistry, capable of effectively purifying air, killing various airborne bacteria, absorbing all sorts of harmful gas such as ethylene and excessive carbon dioxide, while no chemical pollution is resulted.

Claims:

1. A fruit and vegetable preserver, the feature therein comprising housing, air filter mesh, electrostatic air purifier, electric fan, ozone-ion generator, air filter membrane, UV lamp and high voltage direct current generator.
2. Said preserver of Claim 1, wherein the feature of said electrostatic air purifier including 55 pieces of 0.23 X 200 mm high voltage discharging copper wires and 10 pieces of 90 X 234 X 0.35 mm iron plates.
3. Said preserver of Claim 1, wherein the feature of said UV lamp mainly comprising one lamp tube with its wavelength being 2537A.
4. Said preserver of Claim 1, wherein the feature of said UV lamp mainly comprising two lamp tubes, one of which the UV wave length being 2537A while the other 1850A.
5. Said preserver of Claim 1, wherein the feature of said electrostatic collector including 35 pieces of 0.23 X 200 mm high voltage discharging copper wires, 10 pieces of 90 X 234 X 0.35 mm iron plates and 5 plates made of potassium permanganate with sponge and active carbon as carriers being placed between every two pieces of iron plates.
6. Said preserver of Claim 1, wherein the feature of said ozone-ion generator comprising 1 iron plate with plurality of 10mm-diameter perforations and 1 copper foil plate perforated with 8mm diameter openings, said copper foil plate carrying pins, and said iron plate being insulated from said copper foil plate.



[12] 实用新型专利说明书

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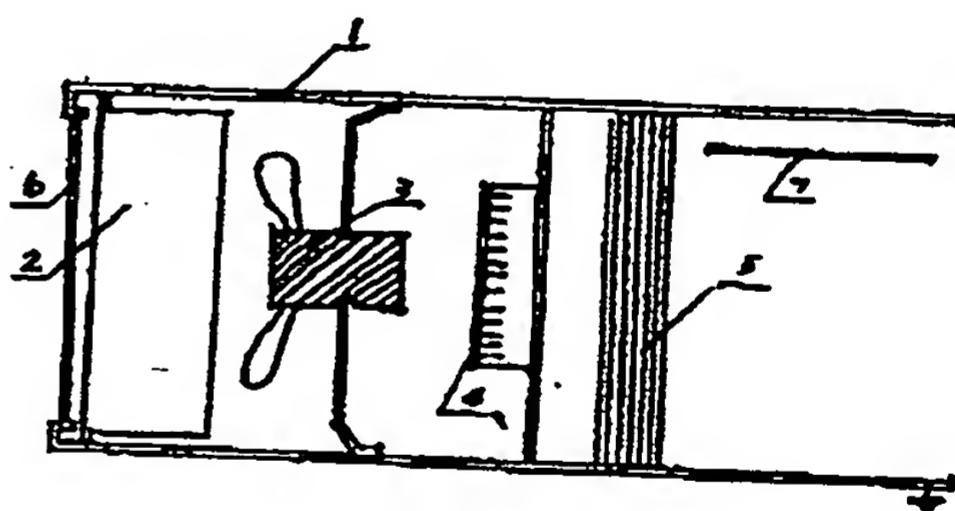
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说明书页数: 附图页数:

[54] 实用新型名称 水果蔬菜电子化学综合保鲜机

[57] 摘要

本实用新型属于水果蔬菜的保鲜设备，它包括外壳，空气过滤网，静电空气净化器，电风机，臭氧正负离子发生器，空气过滤膜，紫外线杀菌灯和高压直流水源发生器。本实用新型的水果蔬菜电子化学综合保鲜机综合了电子化学的现代技术，它能有效地净化空气，杀灭空气中各种病菌，吸收乙烯气体、过量二氧化硫及各种有害气体，并无化学污染，是一种理想的水果和蔬菜的保鲜设备。



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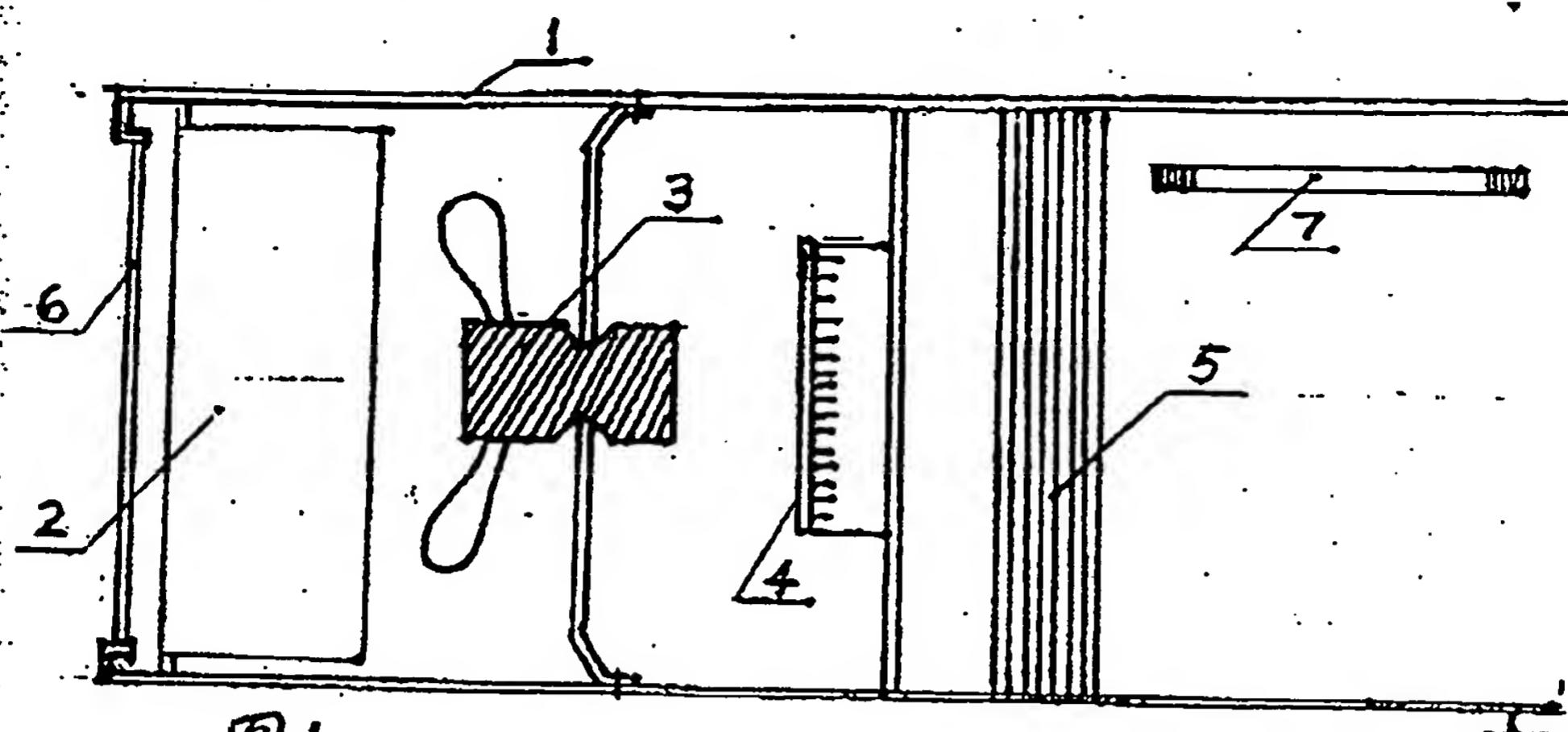


圖 1

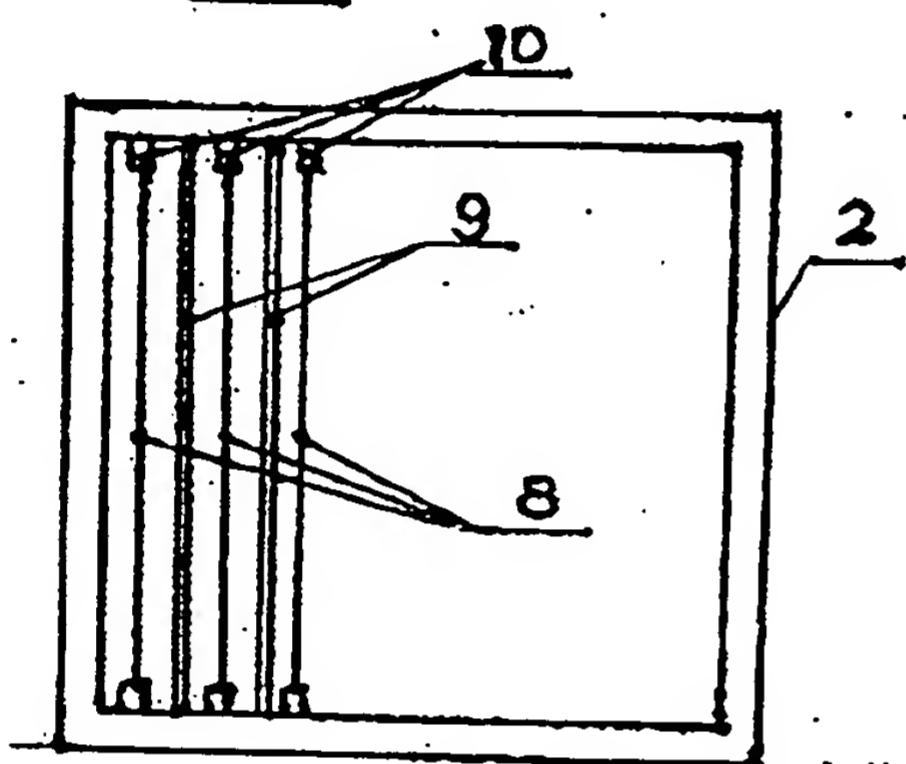


圖 2

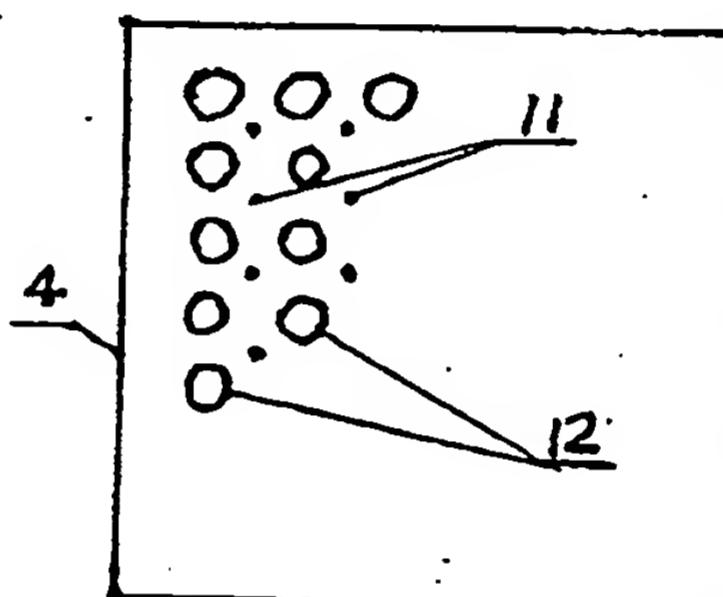


圖 3

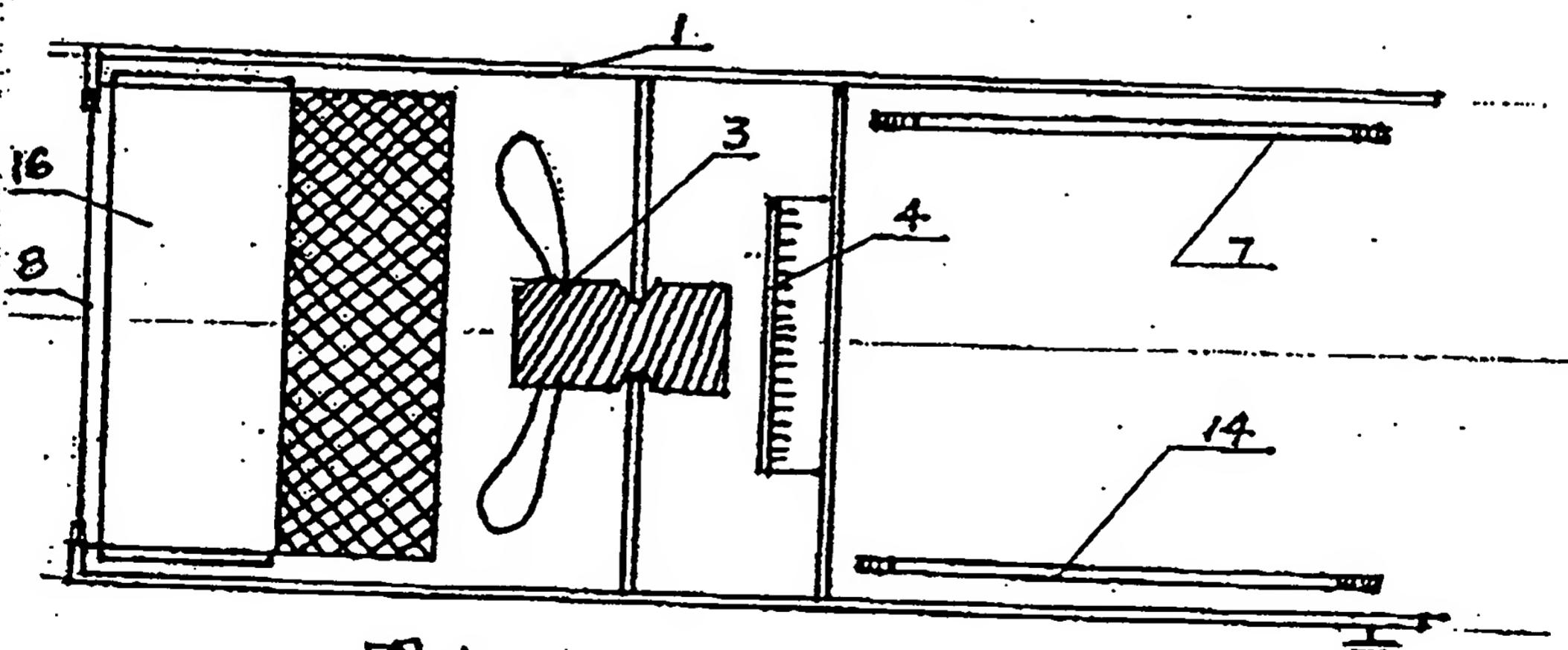


圖 4

说 明 书 附 图

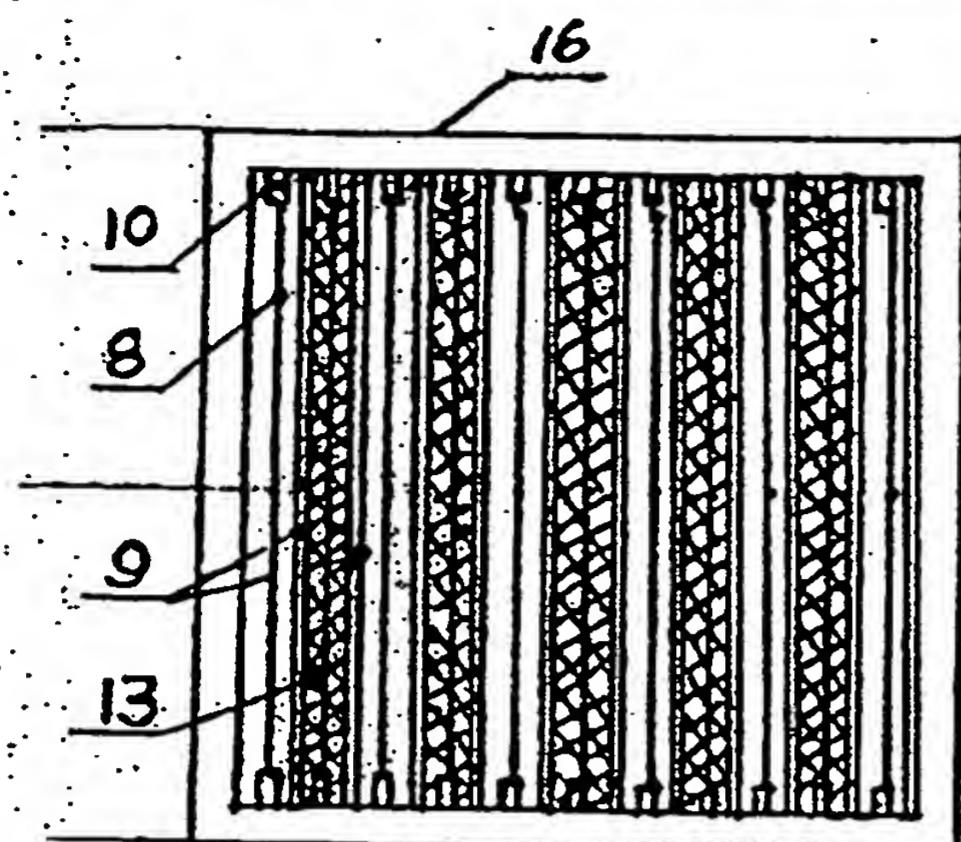


圖5

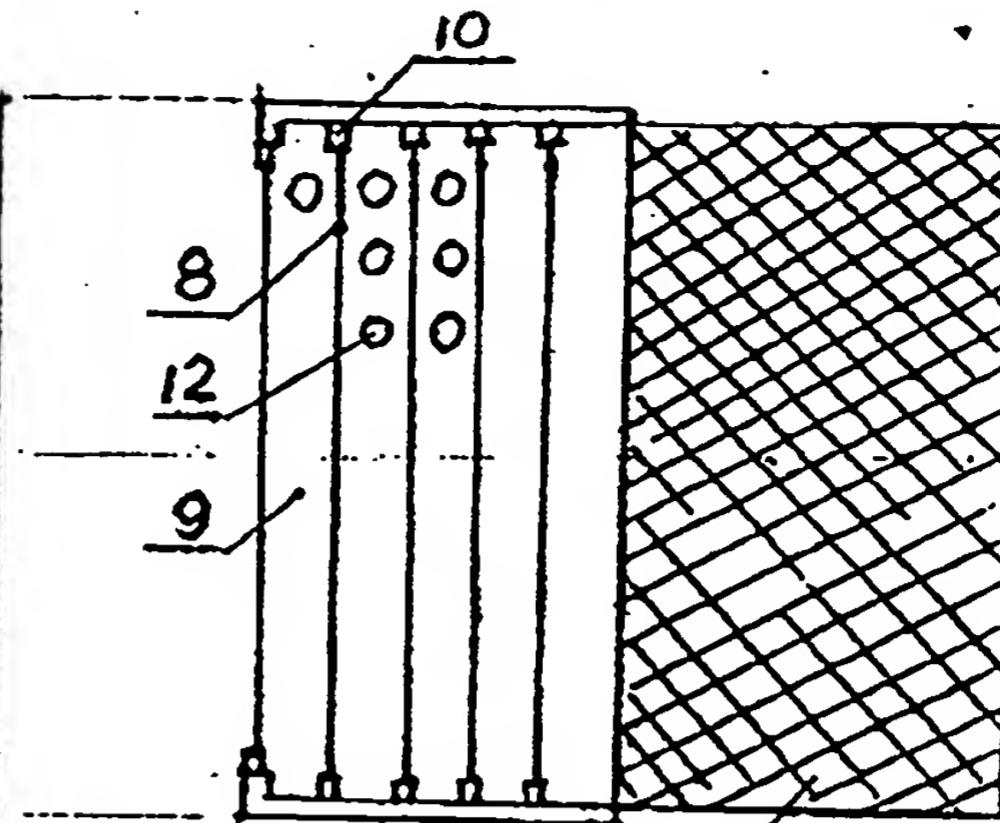


图6



圖 7

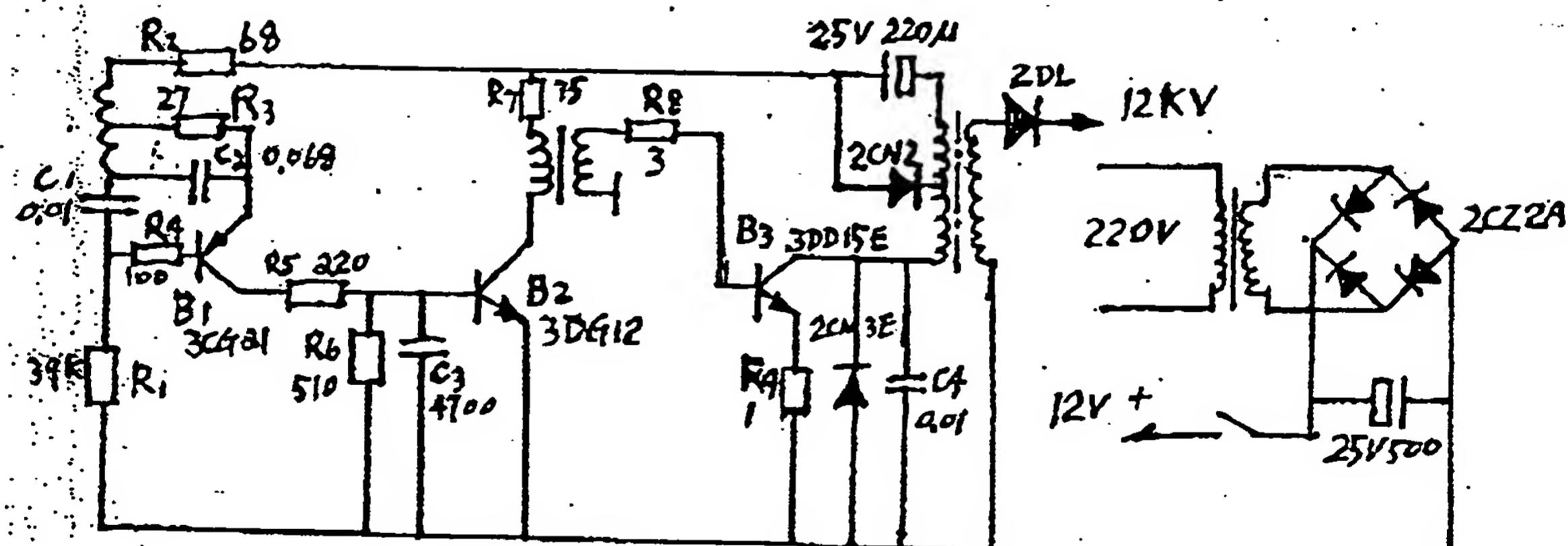


图 8

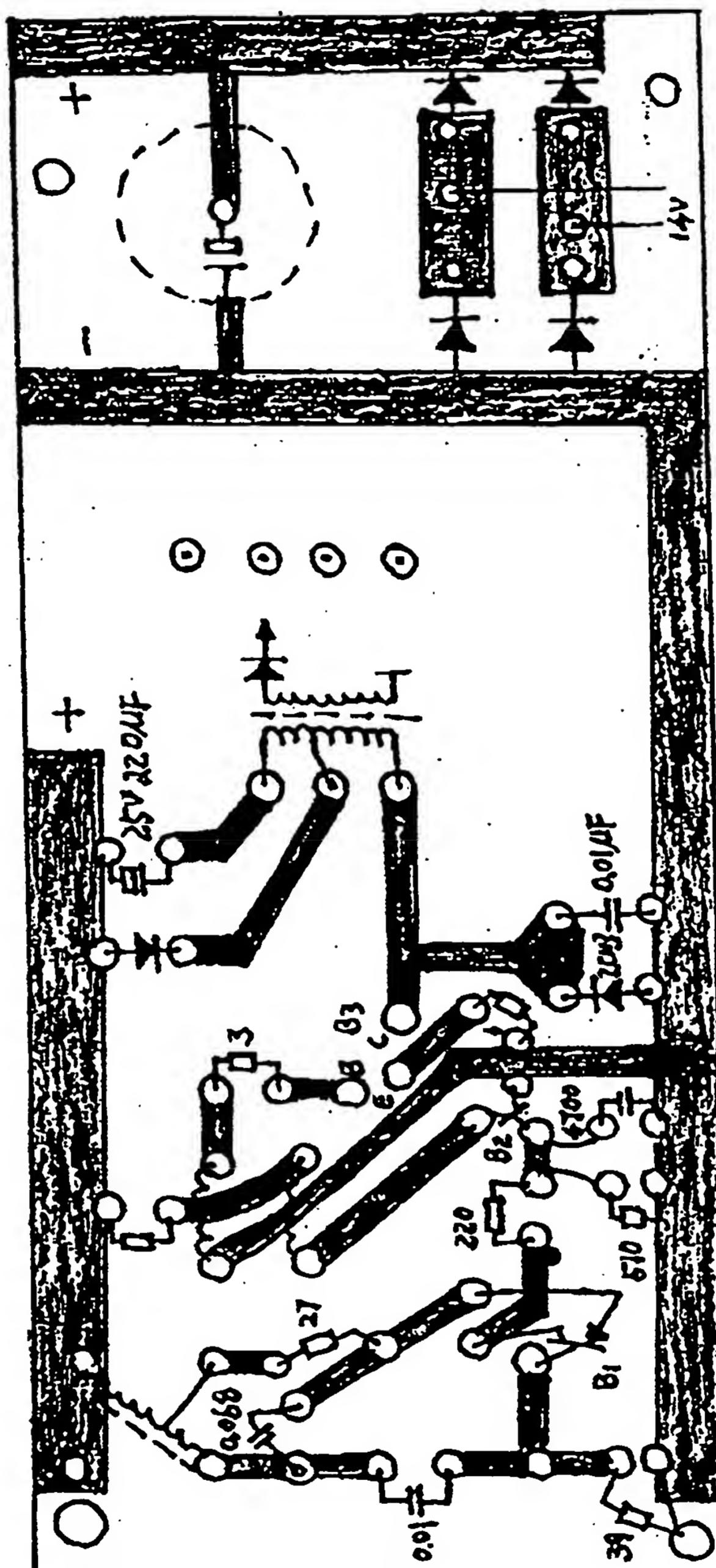


FIG 9

-3-

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